```
                1         10        20        30        40        50        60        70        80        90
Consensus       MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|US8    MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
2. F|US8        MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
3. H129|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
4. KOS|US8      MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
5. McKr|US8     MDRGAVVGFLLGVCVVSCLAGMPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
6. HF10|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
7. CR38|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
8. E03|US8      MDRGAVVGFLLGVCVVSCLAGTPKTSWKRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
9. E06|US8      MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
10. E07|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPQQVPETVVDAACMRAP
11. E08|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRASVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
12. E10|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
13. E11|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
14. E12|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
15. E13|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
16. E14|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
17. E15|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPQQVPETVVDAACMRAP
18. E19|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
19. E22|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
20. E23|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPQQVPETVVDAACMRAP
21. E25|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
22. E35|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPQQVPETVVDAACMRAP
23. R11|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGPTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
24. R62|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGSTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
25. S23|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGSTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP
26. S25|US8     MDRGAVVGFLLGVCVVSCLAGTPKTSWRRVSVGEDVSLLPAPGPTGRGSTQKLLWAVEPLDGCGPLHPSWVSLMPPKQVPETVVDAACMRAP

                100       110       120       130       140       150       160       170       180
Consensus       VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|US8    VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
2. F|US8        VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIYGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
3. H129|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
4. KOS|US8      VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
5. McKr|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
6. HF10|US8     VPLAMAYAPPAPSATGGLRTDFVWQERTAVVNRSLVIYGVRETDSGLYTLFVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
7. CR38|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
8. E03|US8      VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIYGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
9. E06|US8      VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
10. E07|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
11. E08|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
12. E10|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
13. E11|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
14. E12|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
15. E13|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPVPVPTPPPTPADYDEDDNDEG
16. E14|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
17. E15|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
18. E19|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
19. E22|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
20. E23|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
21. E25|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
22. E35|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEEDNDEG
23. R11|US8     VPLAMAYAPPAPSATGGLRTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
24. R62|US8     VPLAMAYAPPAPSATGGLPTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
25. S23|US8     VPLAMAYAPPAPSATGGLPTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG
26. S25|US8     VPLAMAYAPPAPSATGGLPTDFVWQERAAVVNRSLVIHGVRETDSGLYTLSVGDIKDPARQVASVVLVVQPAPVPTPPPTPADYDEDDNDEG

                190       200       210       220       230       240       250       260       270
Consensus       --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
Identity          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|US8      --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYSMDVVWLRFDVPTSCAEM
2. F|US8        EGEDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGEAFSTNVSIHAIAHDDQTYTMDVVWLRFDVPTSCAEM
3. H129|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYSMDVVWLRFDVPTSCAEM
4. KOS|US8      --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYSMDVVWLRFDVPTSCAEM
5. McKr|US8     EGEDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGEAFSTNVSIHAIAHDDQTYTMDVVWLRFDVPTSCAEM
6. HF10|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGEAFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
7. CR38|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYSMDVVWLRFDVPTSCAEM
8. E03|US8      --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
9. E06|US8      --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
10. E07|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
11. E08|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
12. E10|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
13. E11|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
14. E12|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
15. E13|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
16. E14|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
17. E15|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
18. E19|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
19. E22|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
20. E23|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
21. E25|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
22. E35|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
23. R11|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHSIAHDDQTYSMDVVWLRFDVPTSCAEM
24. R62|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
25. S23|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM
26. S25|US8     --EDESLAGTPASGTPRLPPPPAPPRSWPSAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYAMDVVWLRFDVPTSCAEM

                280       290       300       310       320       330       340       350       360
Consensus       RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|US8    RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
2. F|US8        RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPFPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
3. H129|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
4. KOS|US8      RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
5. McKr|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPFPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
6. HF10|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
7. CR38|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
8. E03|US8      RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
9. E06|US8      RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
10. E07|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
11. E08|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
12. E10|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
13. E11|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
14. E12|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
15. E13|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
16. E14|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
17. E15|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
18. E19|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
19. E22|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
20. E23|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
21. E25|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
22. E35|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
23. R11|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
24. R62|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
25. S23|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH
26. S25|US8     RIYESCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPRCSAEAHMEPVPGLAWQAASVNLEFRDASPQHSGLYLCVVYVNDH

                370       380       390       400       410       420       430       440       450       460
Consensus       IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|US8    IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
2. F|US8        IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
3. H129|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
4. KOS|US8      IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
5. McKr|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
6. HF10|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSVLGLSVWACMTCWRRRAWRAVKSRASG
7. CR38|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
8. E03|US8      IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
9. E06|US8      IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
10. E07|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
11. E08|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
12. E10|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
13. E11|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
14. E12|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
15. E13|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
16. E14|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
17. E15|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
18. E19|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
19. E22|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
20. E23|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
21. E25|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
22. E35|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
23. R11|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
24. R62|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
25. S23|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG
26. S25|US8     IHAWGHITISTAAQYRNAVVEQPLPQRGADLAEPTHPHVGAPPHAPPTHGALRLGAVMGAALLLSALGLSVWACMTCWRRRAWRAVKSRASG

                470       480       490       500       510       520       530       540       552
Consensus       KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|US8    KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
2. F|US8        KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
3. H129|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
4. KOS|US8      KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
5. McKr|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
6. HF10|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
7. CR38|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
8. E03|US8      KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
9. E06|US8      KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
10. E07|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
11. E08|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
12. E10|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
13. E11|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
14. E12|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
15. E13|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
16. E14|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
17. E15|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
18. E19|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
19. E22|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
20. E23|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
21. E25|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
22. E35|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
23. R11|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
24. R62|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
25. S23|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
26. S25|US8     KGPTYIRVADSELYADWSSDSEGERDQVPWLAPPERPDSPSTNGSGFEILSPTAPSVYPRSDGHQSRRQLTTFGSGRPDRRYSQASDSSVFW
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